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**Amendments to the Claims** 

This listing of claims will replace all prior versions, and listings, of claims in the

application:

**Listing of Claims** 

1. (Previously Presented) A resorbable adhesion-inhibition membrane for inhibiting adhesions

and scarring comprising a substantially uniform composition of a polymeric material, the

polymeric material being capable of resorbing into a mammalian body within a period less than

about 24 months from an initial implantation of the adhesion-inhibition membrane into the

mammalian body, the polymeric material having a biased molecular orientation in the membrane

that is biased to at least one axis and having an anti-inflammatory characteristic with a viscosity

property greater than about 1 g/dL, the anti-inflammatory characteristic comprising a first

substantially-smooth non-porous surface, and the membrane having an opposing second surface

and a thickness of about 0.001 mm to about 0.300 mm as measured between the first

substantially-smooth non-porous surface and the opposing second surface.

2. (Previously Presented) The membrane of claim 1, wherein the polymeric material comprises

a substantially amorphous polymer.

3. (Previously Presented) The membrane of claim 1 wherein the polymeric material comprises a

polylactide.

4. (Previously Presented) The membrane of claim 3 wherein the polylactide comprises a

copolymer of L-lactide and D,L-lactide.

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5. (Previously Presented) The membrane of claim 1 wherein the polymeric material comprises a

copolymer of lactide and epsilon caprolactone.

6. (Previously Presented) The membrane of claim 1 wherein the molecular orientation of a

polymer of the polymeric material is biased toward one axis.

7. (Previously Presented) The membrane of claim 1 wherein the molecular orientation of a

polymer of the polymeric material is biased toward two axes.

8. (Previously Presented) The membrane of claim 1 being about 0.010 mm to about 0.100 mm

thick.

9. (Previously Presented) The membrane of claim 1 being about 0.015 mm to about 0.025 mm

thick.

10. (Previously Presented) The membrane of claim 1 being about 0.020 mm thick.

11. (Previously Presented) The membrane of claim 1 wherein the membrane has a glass

transition temperature, and a thickness of the membrane increases by at least 5 times when the

membrane is brought to its glass transition temperature.

12. (Previously Presented) The membrane of claim 1 wherein the membrane has a glass

transition temperature, and a thickness of the membrane increases by at least 10 times when the

membrane is brought to its glass transition temperature.

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13. (Previously Presented) The membrane of claim 1 being impregnated with an additive

selected from the group consisting of a chemotactic substance for influencing cell-migration, an

inhibitory substance for influencing cell-migration, a mitogenic growth factor for influencing

cell proliferation and a growth factor for influencing cell differentiation.

14. (Previously Presented) The membrane of claim 1 being contained in a sealed sterile

packaging.

15. (Previously Presented) The membrane of claim 1 further having at least one thick portion,

each thick portion has a length equal to or shorter than the longest length of the membrane, a

width greater than about 0.5 mm, and a thickness greater than about 2 times a thickness of a

central area of the membrane.

16. (Previously Presented) The membrane of claim 15 wherein the thick portion protrudes from

both of the two surfaces and forms at least a segment of an edge of the membrane.

17. (Original) The membrane of claim 15 wherein a first thick portion forms at least a segment

of a first edge of the membrane, and a second thick portion forms at least a segment of a second

edge of the membrane.

18. (Original) The membrane of claim 15 wherein a thickness of the membrane increases more

than 2 times when the membrane is brought to its glass transition temperature

19. (Original) The membrane of claim 17 further comprising a plurality of holes disposed along

the thick portion.

20. (Previously Presented) The membrane of claim 1 further comprising a plurality of holes

disposed along an edge of the membrane.

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21. (Previously Presented) The membrane of claim 1 having a viscosity property greater than

about 2 g/dL.

22. (Previously Presented) The membrane of claim 1 having a viscosity property of about 3

g/dL.

23. (Previously Presented) The membrane of claim 1 having a non-uniform shrinking

characteristic.

24. (Previously Presented) The membrane of claim 1 having a directional shrinking

characteristic.

25. (Currently Amended) A resorbable adhesion-inhibition membrane for inhibiting adhesions

and scarring, comprising a substantially uniform composition of a polymeric material extruded

into a membrane, the adhesion-inhibition membrane being capable of resorbing into the a

mammalian body within a period less than about 24 months from an initial implantation of the

membrane into the mammalian body, the membrane having an anti-inflammatory characteristic

with a viscosity property greater than about 1 g/dL, the anti-inflammatory characteristic

comprising a substantially-smooth anti-inflammatory surface and the membrane being about

0.010 mm to about 0.030 mm thick as measured between the substantially-smooth anti-

inflammatory surface and a second opposing surface of the membrane.

26. (Previously Presented) The membrane of claim 25, wherein the polymeric material

comprises a substantially amorphous polymer.

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27. (Original) The membrane of claim 25 further comprising at least one thick portion, the at

least one thick portion having a length equal to or shorter than a longest length of the membrane,

a width greater than about 0.5 mm, and a thickness greater than about 2 times the thickness of

the membrane at a region other than the at least one thick portion.

28. (Previously Presented) The membrane of claim 27 wherein the thick portion protrudes from

both of the two surfaces and forms at least a segment of an edge of the membrane.

29. (Original) The membrane of claim 27 wherein a first thick portion forms at least a segment

of a first edge of the membrane, and a second thick portion forms at least a segment of a second

edge of the membrane.

30. (Original) The membrane of claim 27 wherein the thick portion is effective to provide

rigidity to the membrane.

31. (Original) The membrane of claim 27 further comprising a plurality of holes disposed along

the thick portion.

32. (Original) The membrane of claim 25 wherein the membrane is non-porous and comprises

polylactide.

33-52. Cancelled.

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53. (Previously Presented) A resorbable anti-adhesive membrane comprising a substantially uniform composition of a polymeric material, the polymeric material being capable of resorbing into a mammalian body within a period less than about 24 months from an initial implantation of the anti-adhesive membrane into the mammalian body, the polymeric material comprising a polylactide and having a biased molecular orientation in the membrane that is biased to at least one axis and a viscosity property that is greater than about 1 g/dL, the membrane having at least one substantially-smooth-anti-adhesive surface and being non-porous, the membrane also having a thickness of about 0.001 mm to about 0.300 mm as measured between the substantially-smooth anti-adhesive surface and an opposing surface of the membrane, wherein the membrane has a glass transition temperature and a thickness of the membrane increases by at least 5 times when the membrane is brought to its glass transition temperature.

54. (Previously Presented) A resorbable anti-adhesive membrane comprising a substantially uniform composition of a polymeric material capable of resorbing into a mammalian body within a period less than about 24 months from an initial implantation of the anti-adhesive membrane into the mammalian body, the polymeric material comprising a polylactide and having a biased molecular orientation in the membrane that is biased to at least one axis and a viscosity property that is greater than about 1 g/dL, the membrane having at least one substantially-smooth anti-adhesive surface and being non-porous, the membrane further having a thickness of about 0.001 mm to about 0.300 mm as measured between the substantially-smooth anti-adhesive surface and an opposing surface of the membrane, wherein the membrane has a glass transition temperature and a thickness of the membrane increases by at least 10 times when the membrane is brought to its glass transition temperature.

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55. (Previously Presented) A resorbable anti-adhesive membrane comprising a substantially uniform composition of a polymeric material capable of resorbing into a mammalian body within a period less than about 24 months from an initial implantation of the anti-adhesive membrane into the mammalian body, the polymeric material comprising a polylactide and having a biased molecular orientation in the membrane that is biased to at least one axis and a viscosity property that is greater than about 1 g/dL, the membrane having at least one substantially-smooth anti-adhesive surface and the membrane being non-porous, the membrane also having a thickness of about 0.001 mm to about 0.300 mm as measured between the substantially-smooth anti-adhesive surface and an opposing surface of the membrane, the membrane further having at least one thick portion, each thick portion having a length equal to or shorter than the longest length of the membrane, a width greater than about 0.5 mm, and a thickness greater than about 2 times a thickness of a central area of the membrane, wherein a thickness of the membrane increases more than 2 times when the membrane is brought to its glass transition temperature.